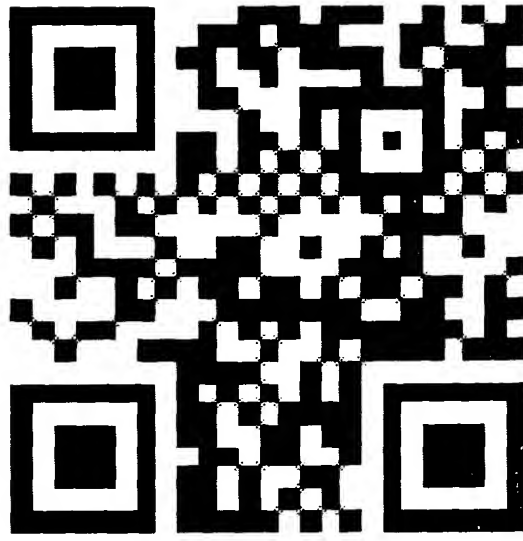
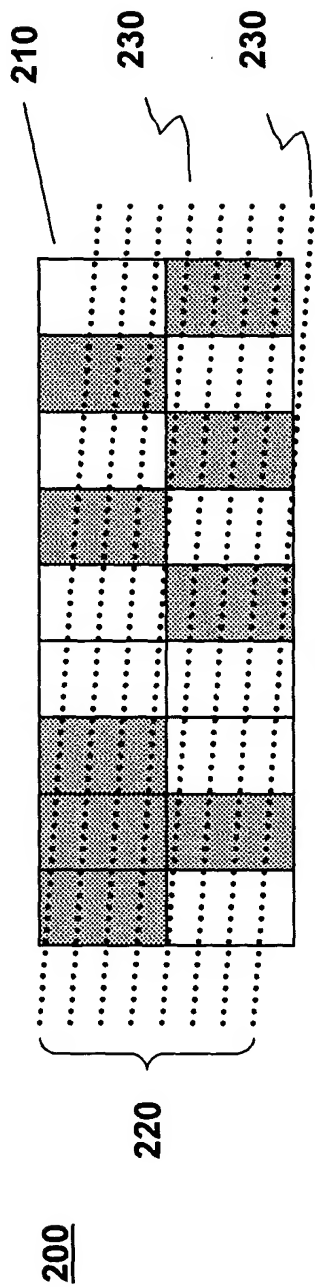


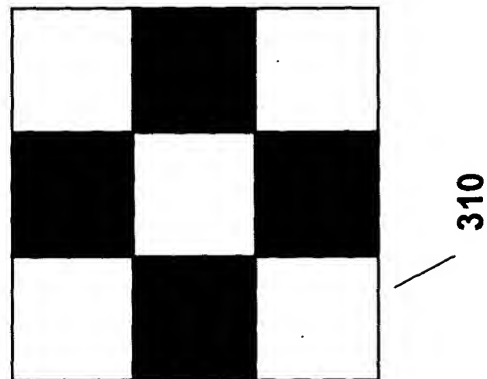
**FIG. 1A**  
(Prior Art)



**FIG. 1B** (Prior Art)



**FIG. 2**



**FIG. 3**

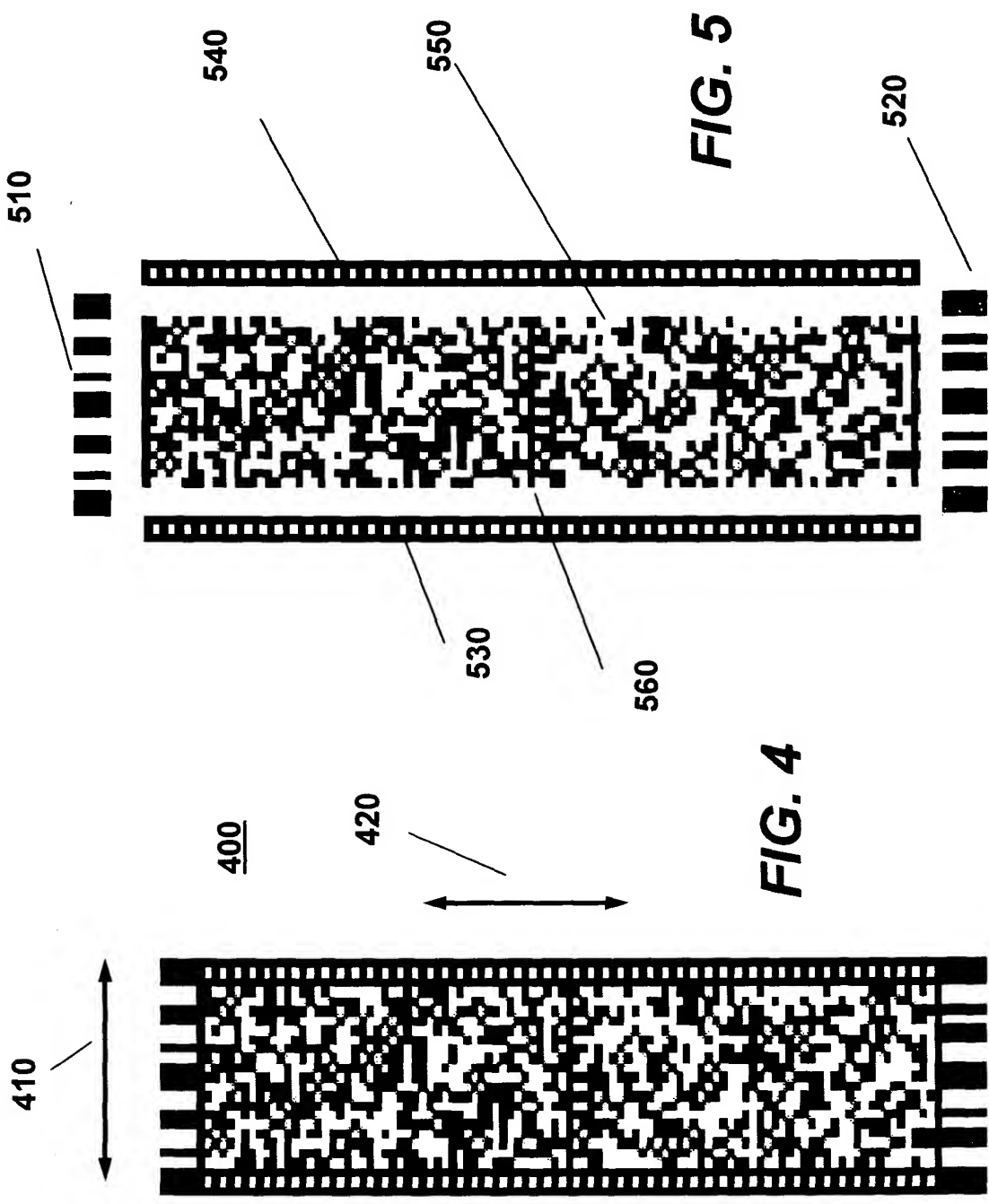
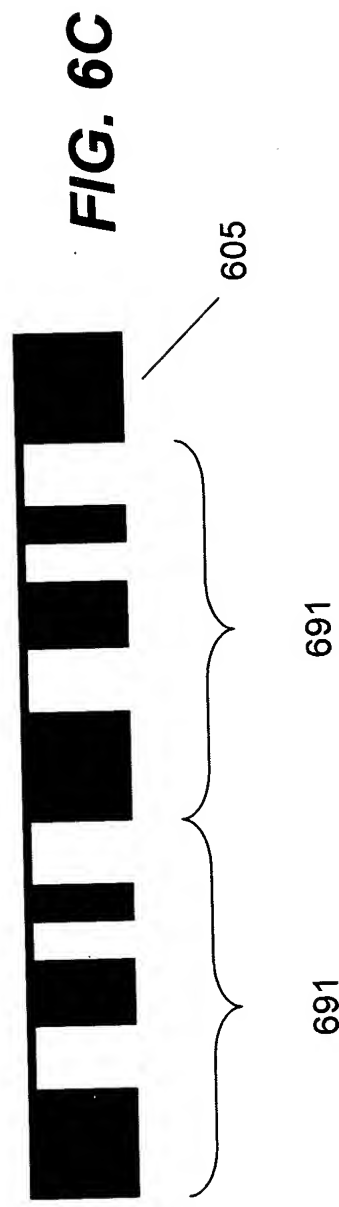
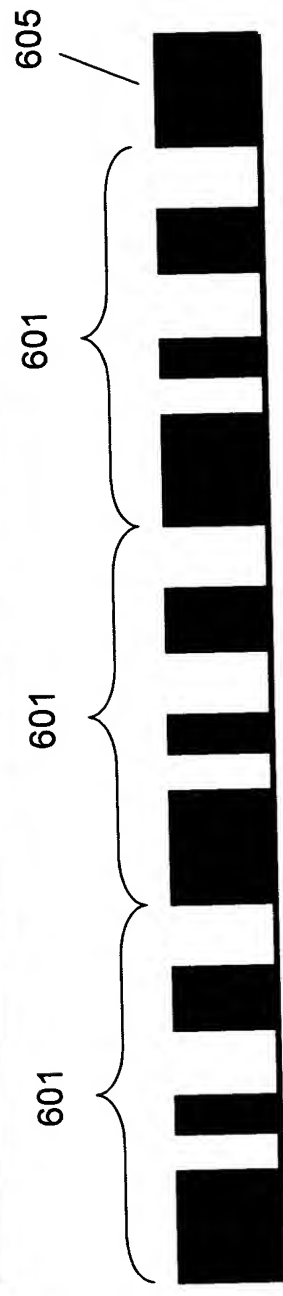
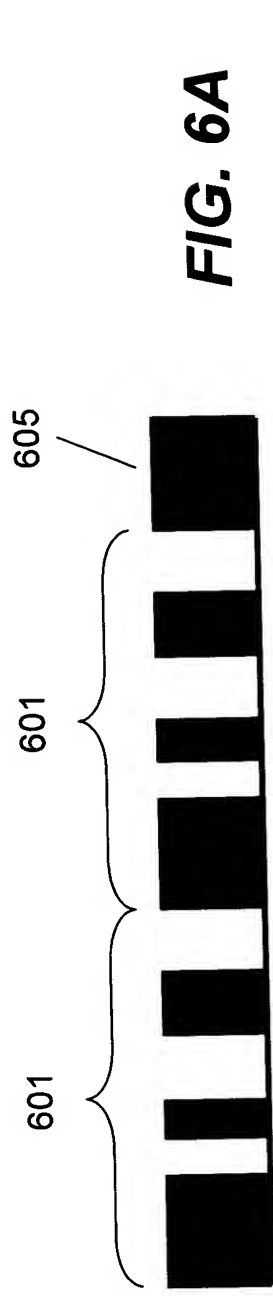
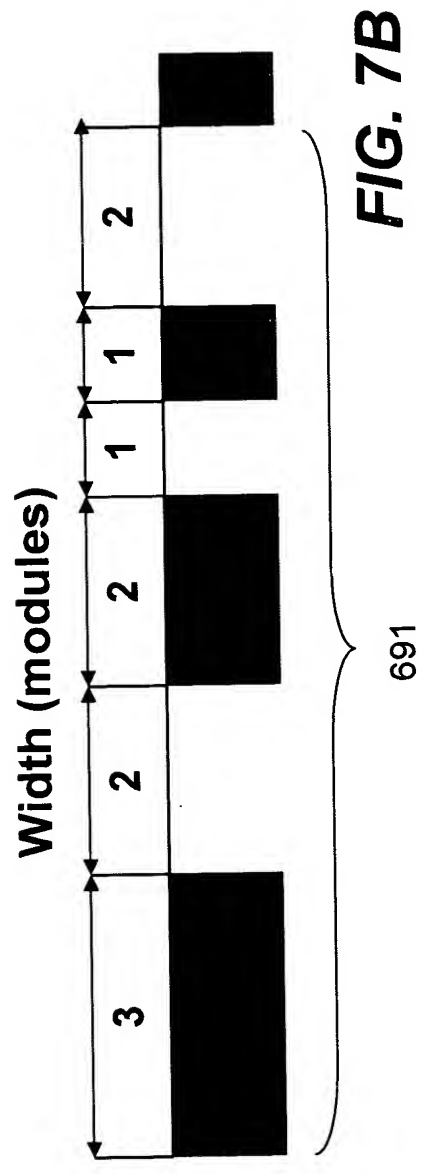
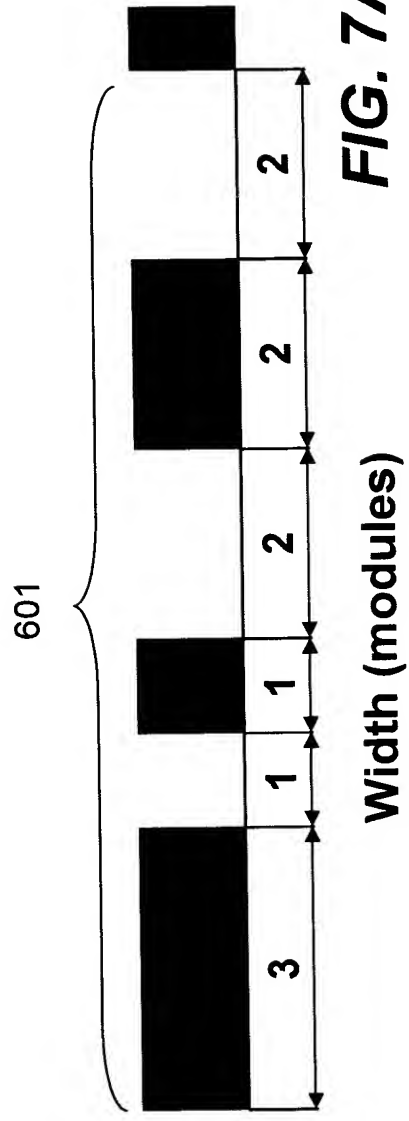
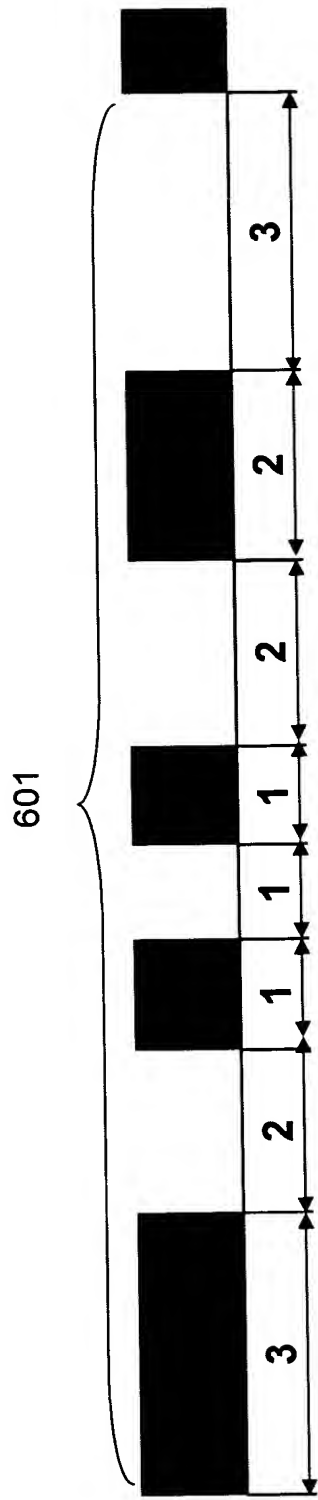


FIG. 4

FIG. 5

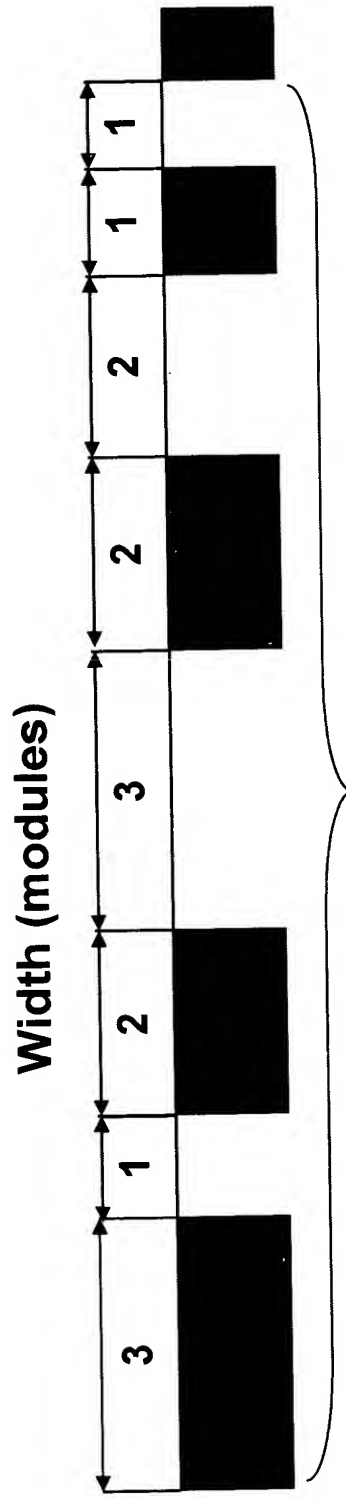






**FIG. 7C**

Width (modules)



**FIG. 7D**

Width (modules)

Error Correction Level	Data Codeword	Error Correction Codeword	Max. Allowable Error
1	119	8	4
2	111	16	8
3	95	32	16
4	63	64	32

**FIG. 8**

A1	A2	A3	.....	A127
----	----	----	-------	------

B1	B2	B3	.....	B127
----	----	----	-------	------

C1	C2	C3	.....	C127
----	----	----	-------	------

A1	B1	C1	A2	B2	C2	.....	A127	B127	C127
----	----	----	----	----	----	-------	------	------	------

FIG. 9A

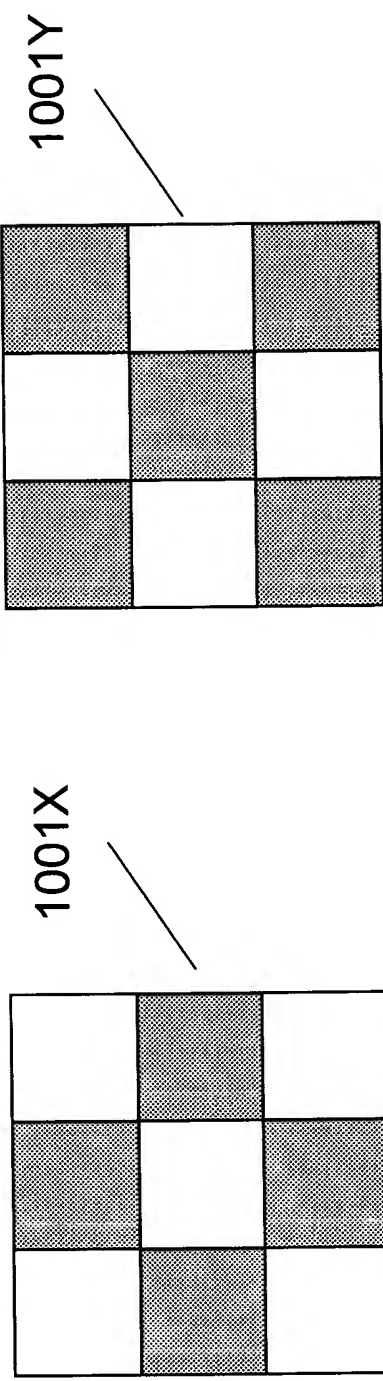
a4	a3	a2	a1	a0	e0	e1	e2	e3	e4	e5	e6	e7	e8	e9
b4	b3	b2	b1	b0	e0	e1	e2	e3	e4	e5	e6	e7	e8	e9
c4	c3	c2	c1	c0	e0	e1	e2	e3	e4	e5	e6	e7	e8	e9

FIG. 9B

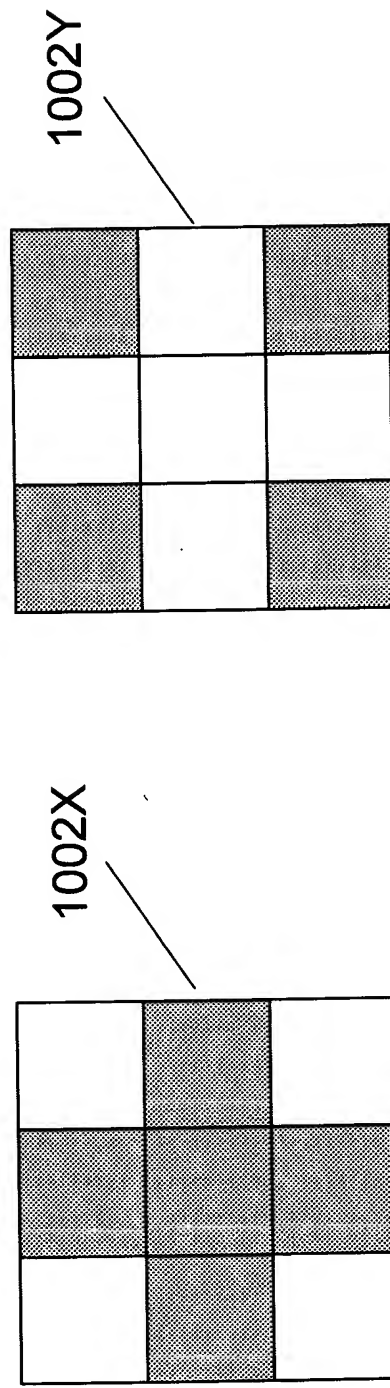


A3	A2	B3	B2	D3	D2	E3	E2	G3	G2	H3	H2	J3	J2	K3	K2	M3	M2	N3	N2	
A1	A0	B1	B0	D1	D0	E1	E0	G1	G0	H1	H0	J1	J0	K1	K0	M1	M0	N1	N0	
C3	C2	C1	C0	F3	F2	F1	F0	I3	I2	I1	I0	L3	L2	L1	L0	O3	O2	O1	O0	

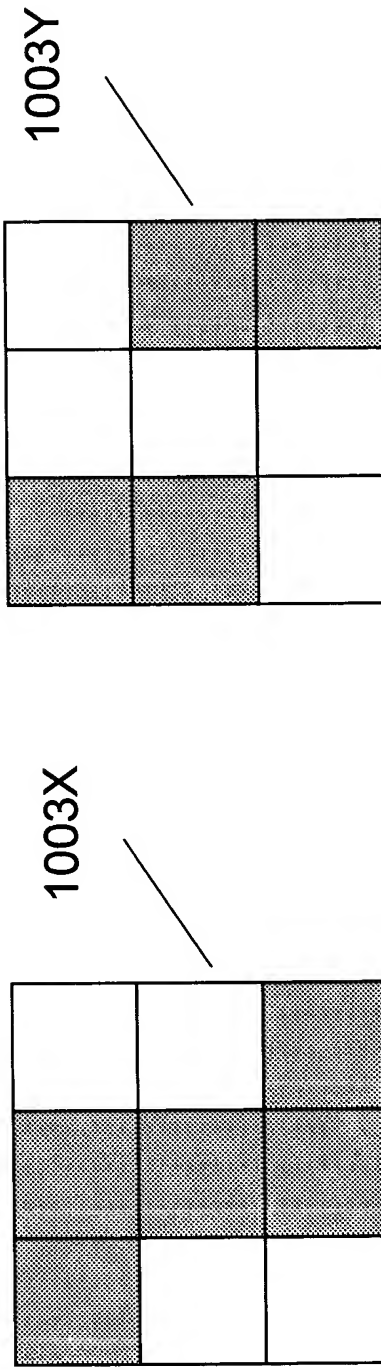
**FIG. 9C**



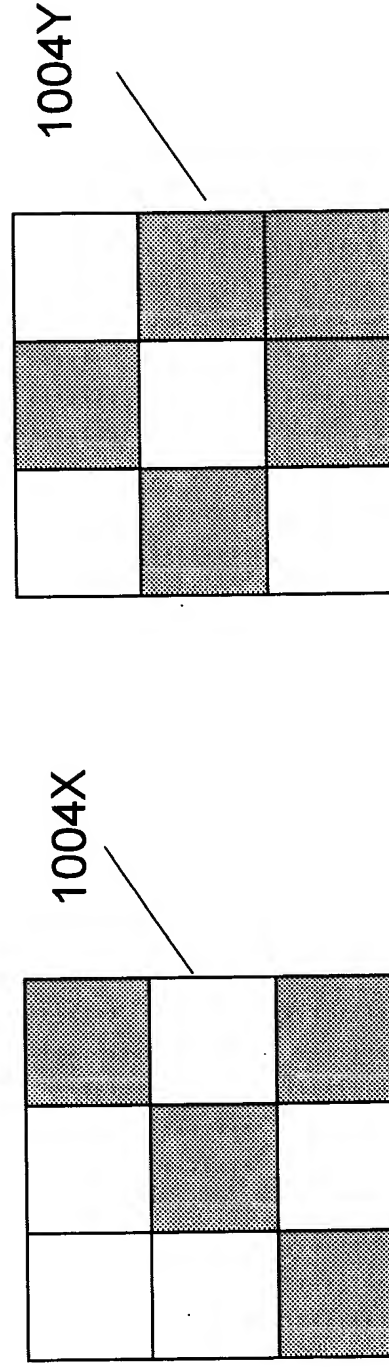
**FIG. 10A.1**



**FIG. 10A.2**



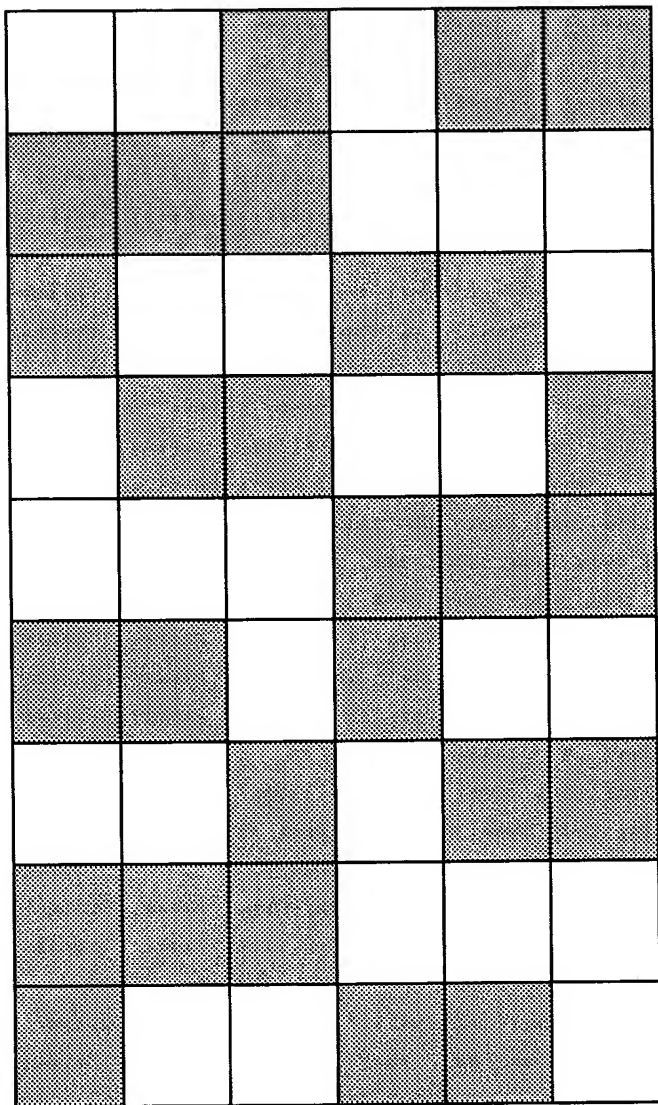
**FIG. 10A.3**



**FIG. 10A.4**

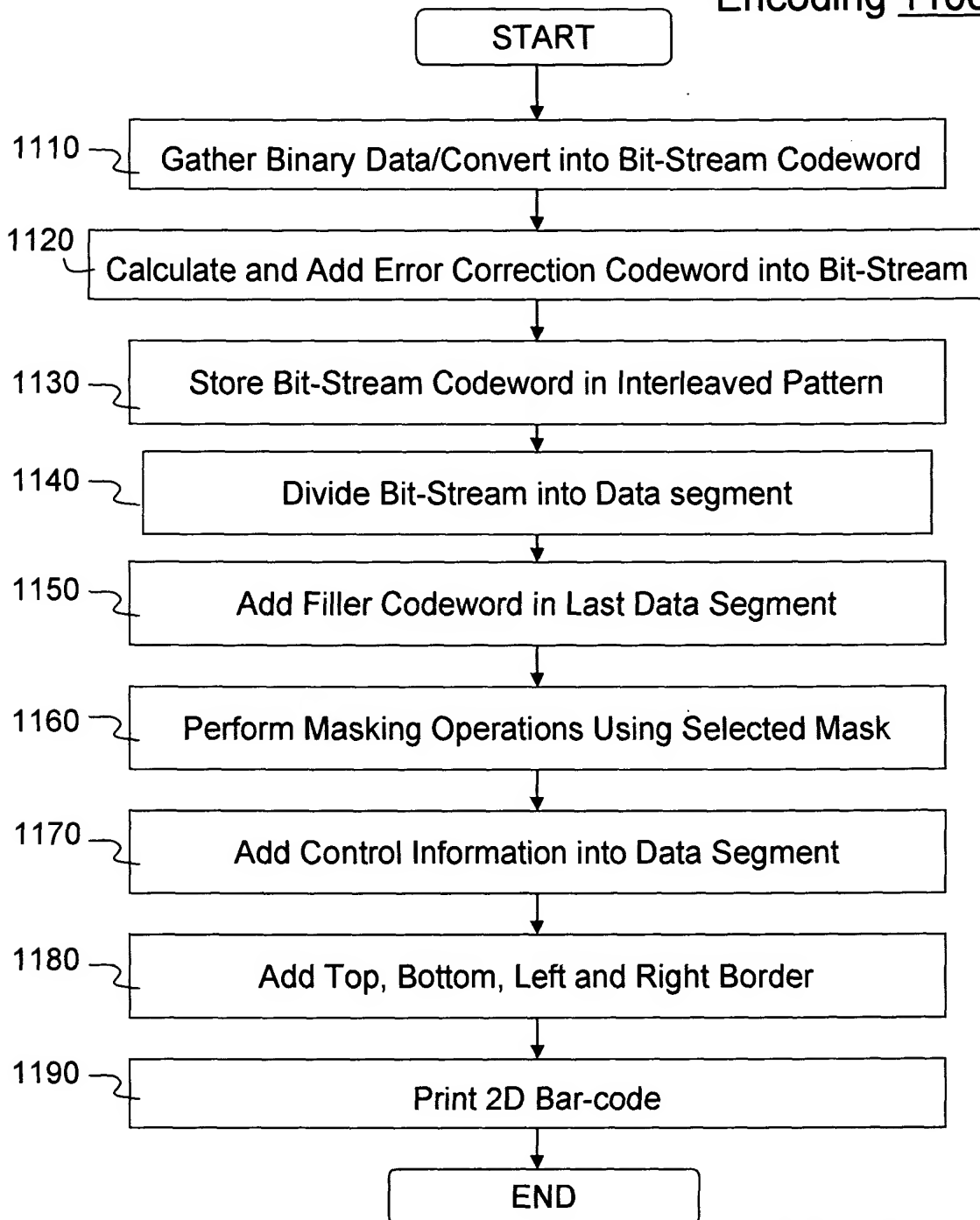
X	Y	X	Y	X
Y	X	Y	X	Y
X	Y	X	Y	X
Y	X	Y	X	Y
X	Y	X	Y	X

**FIG. 10B**

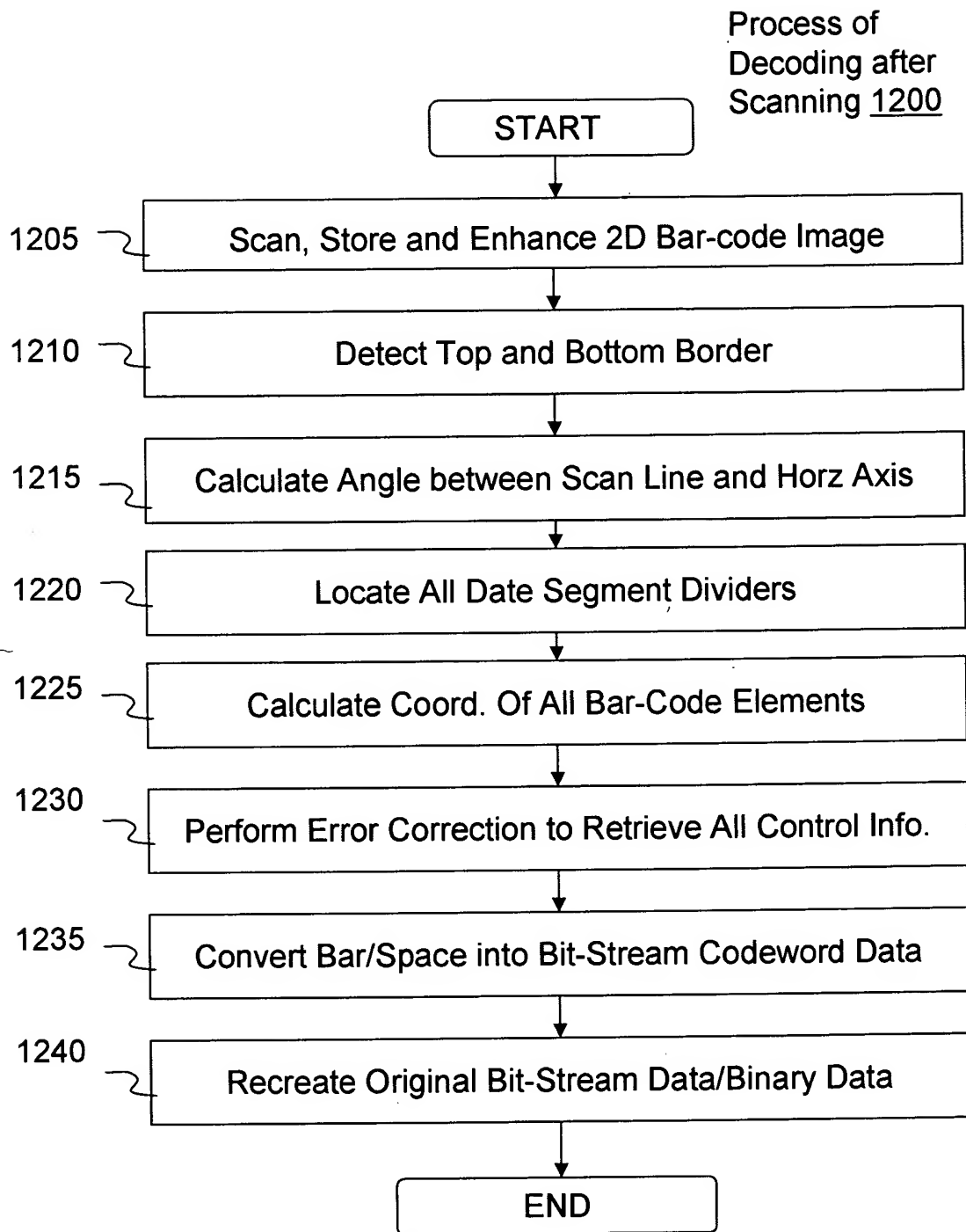


**FIG. 10C**

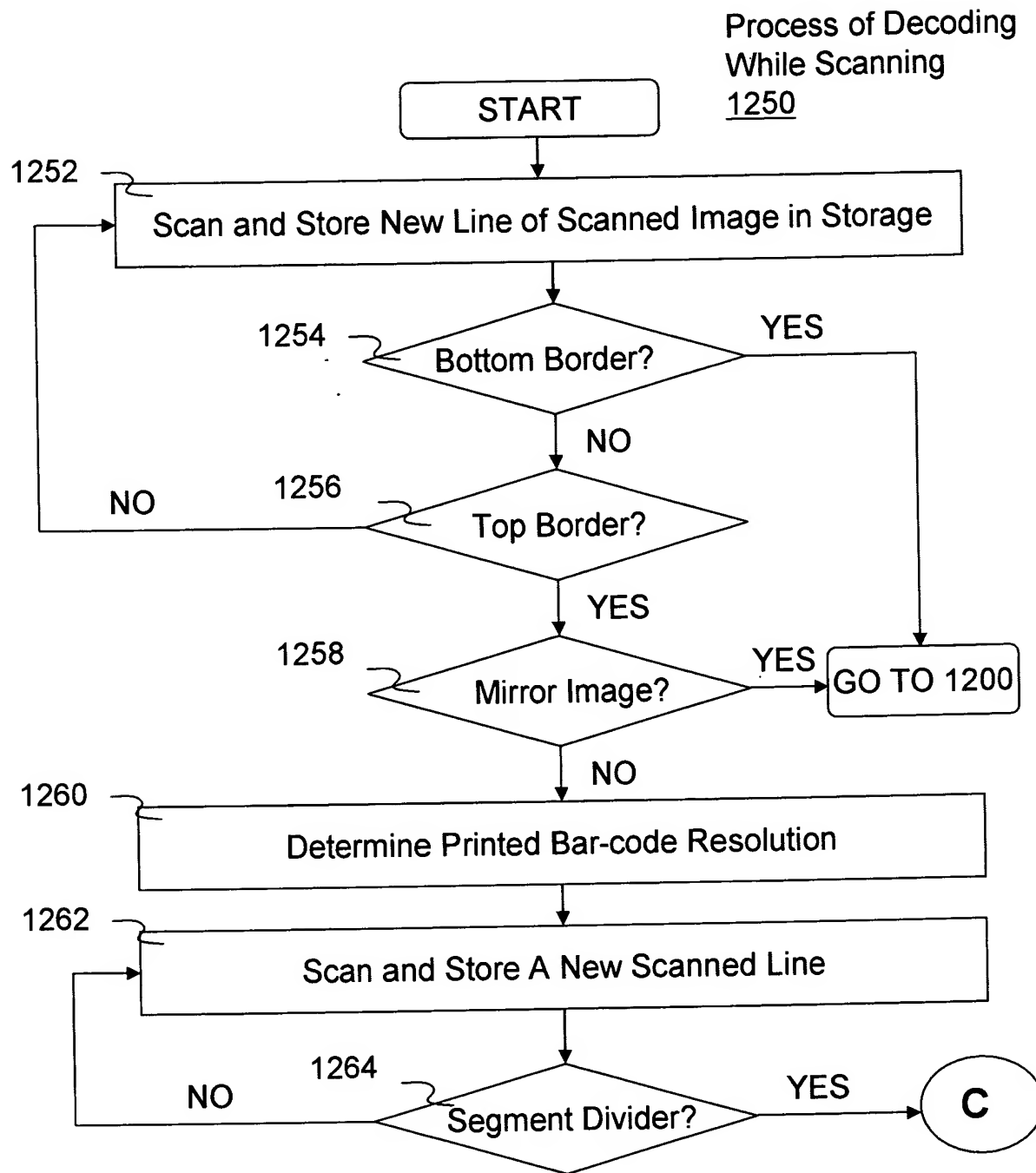
Process of  
Encoding 1100



**FIG. 11**

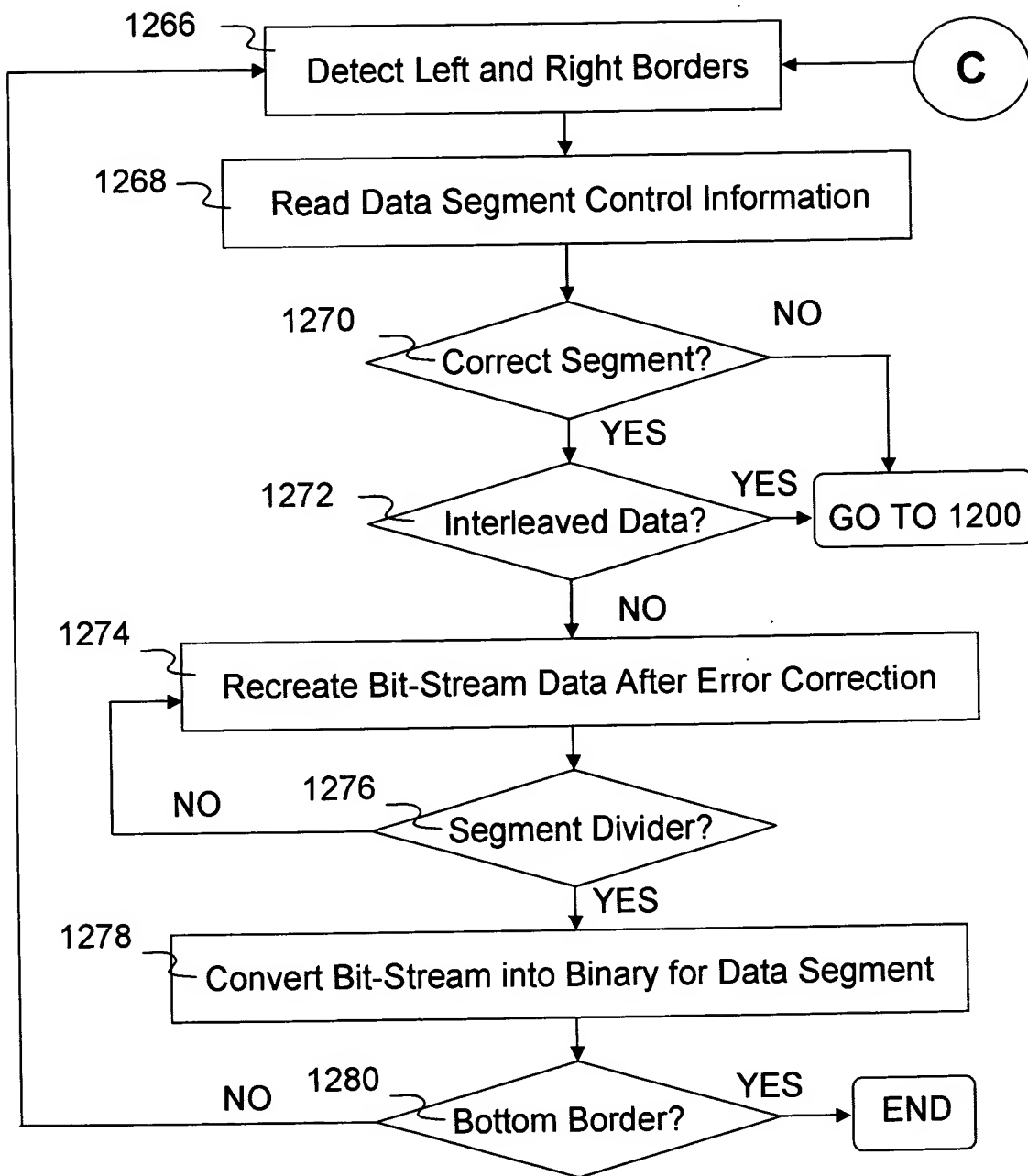


**FIG. 12A**



**FIG. 12B**





**FIG. 12C**

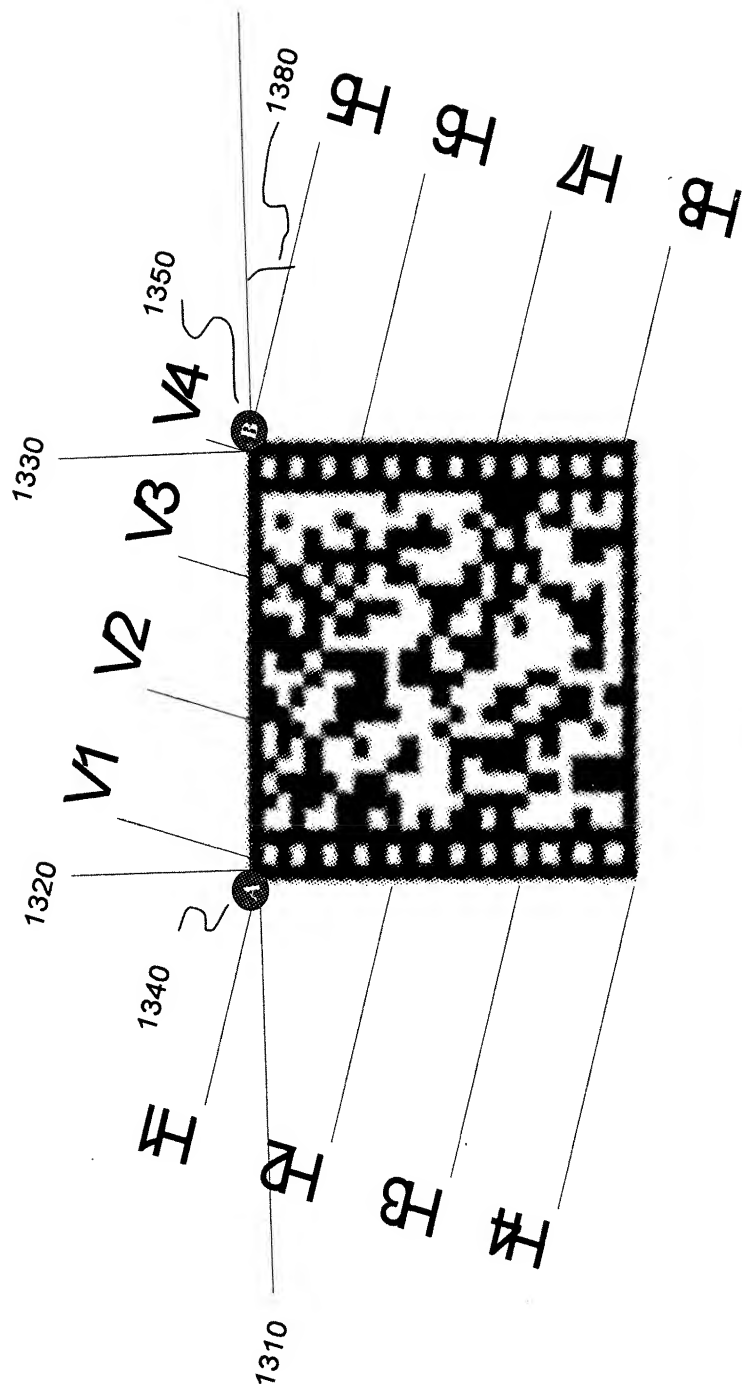
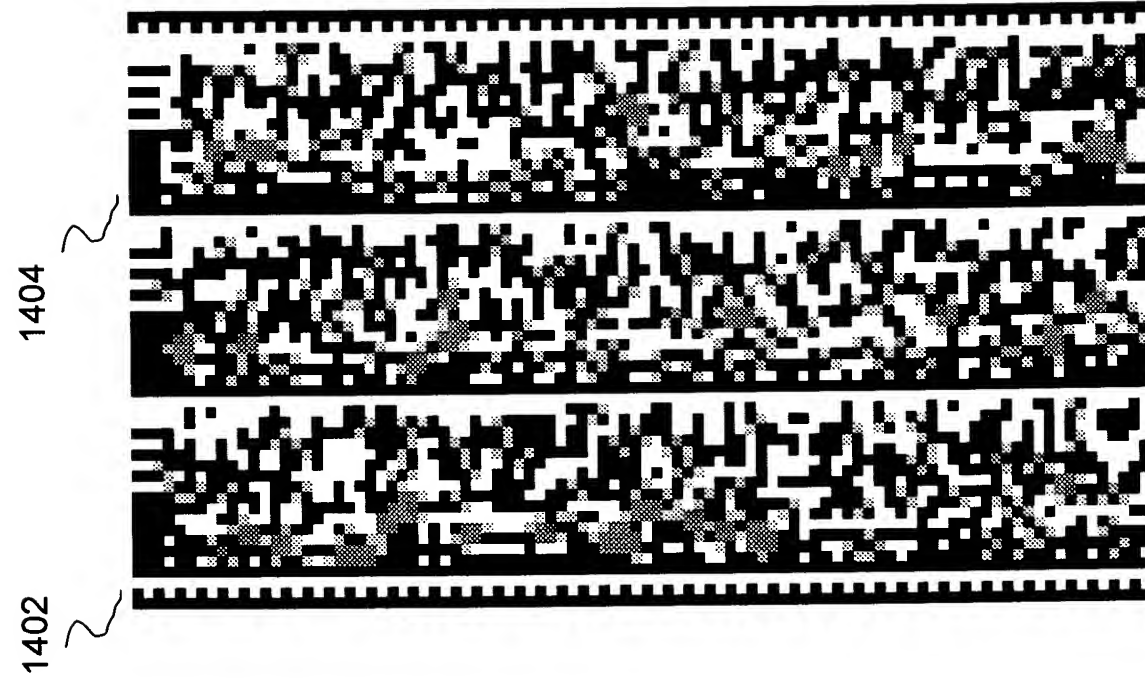
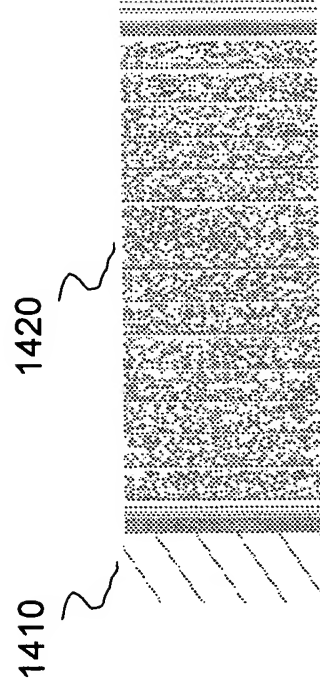


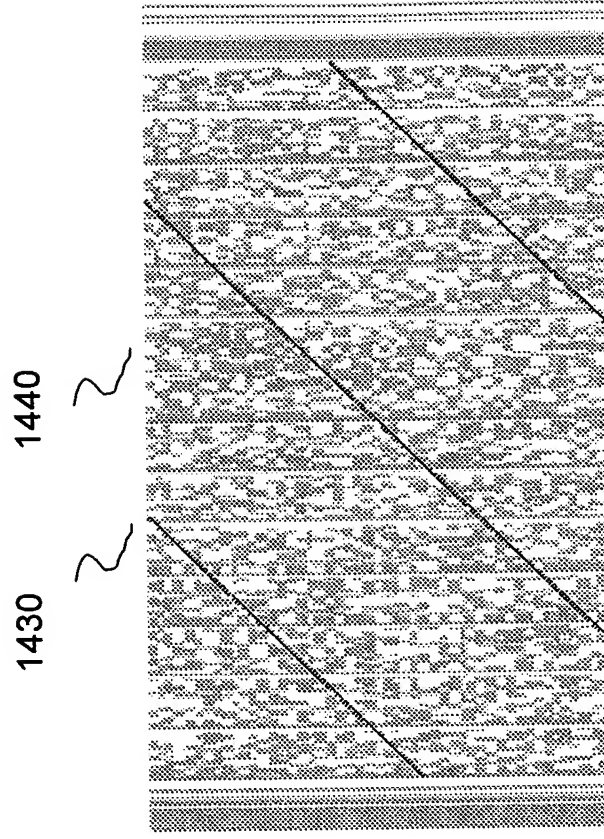
FIG. 13



**FIG. 14A**

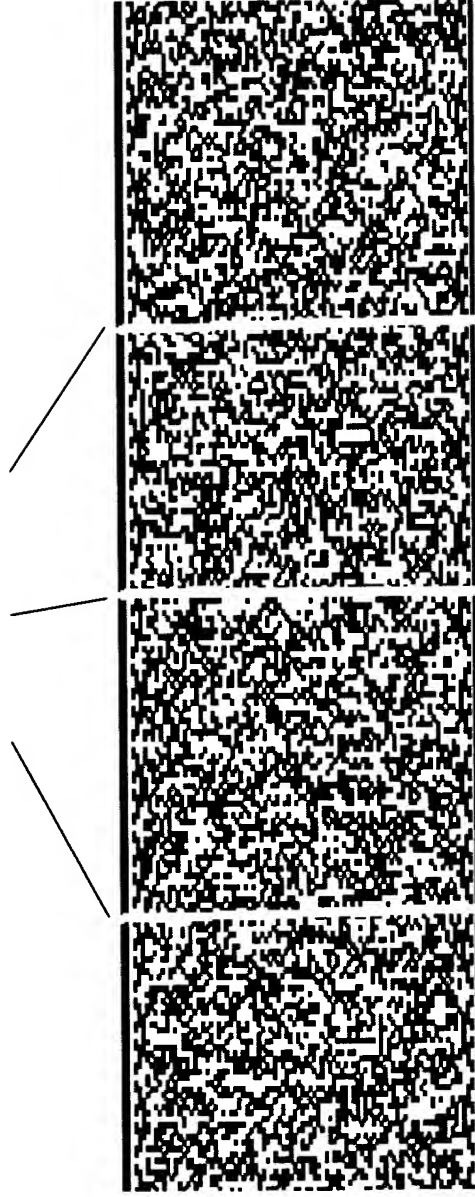


**FIG. 14B**



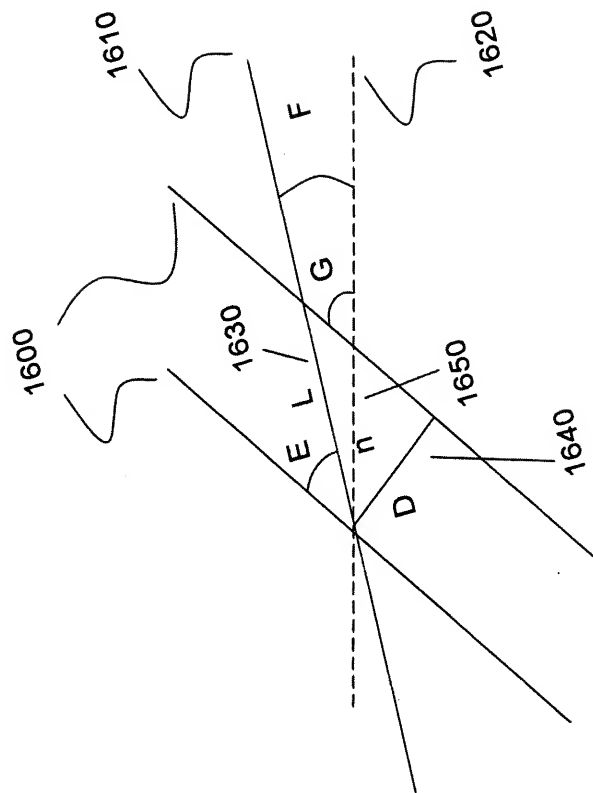
**FIG. 14C**

1520

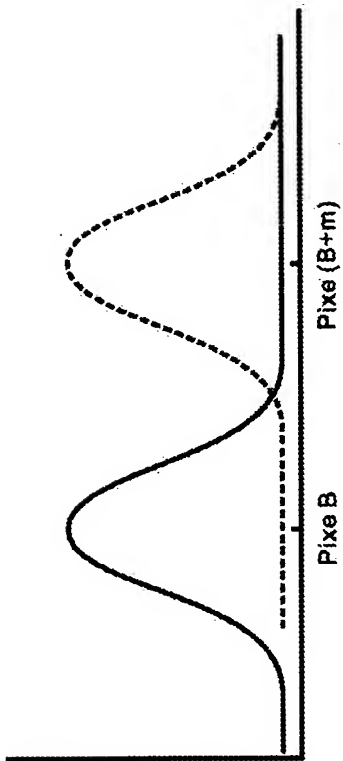


1510

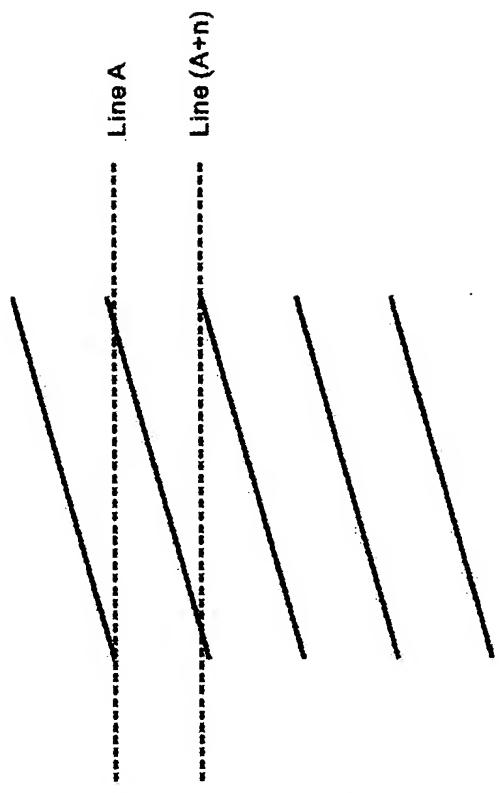
**FIG. 15**



**FIG. 16**



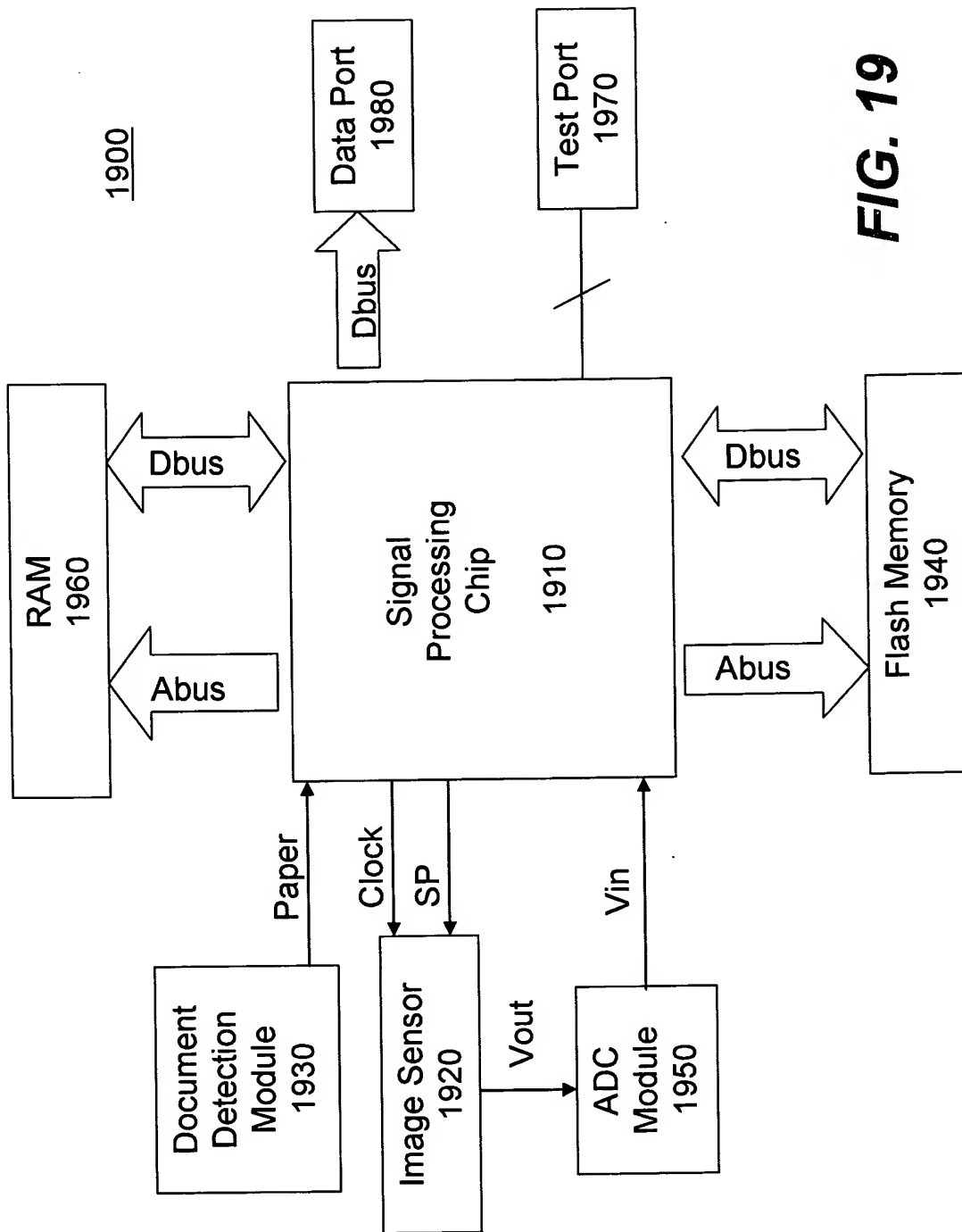
**FIG. 17A**



**FIG. 17B**

8	12	408 pixels	12	8
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**FIG. 18**



**FIG. 19**